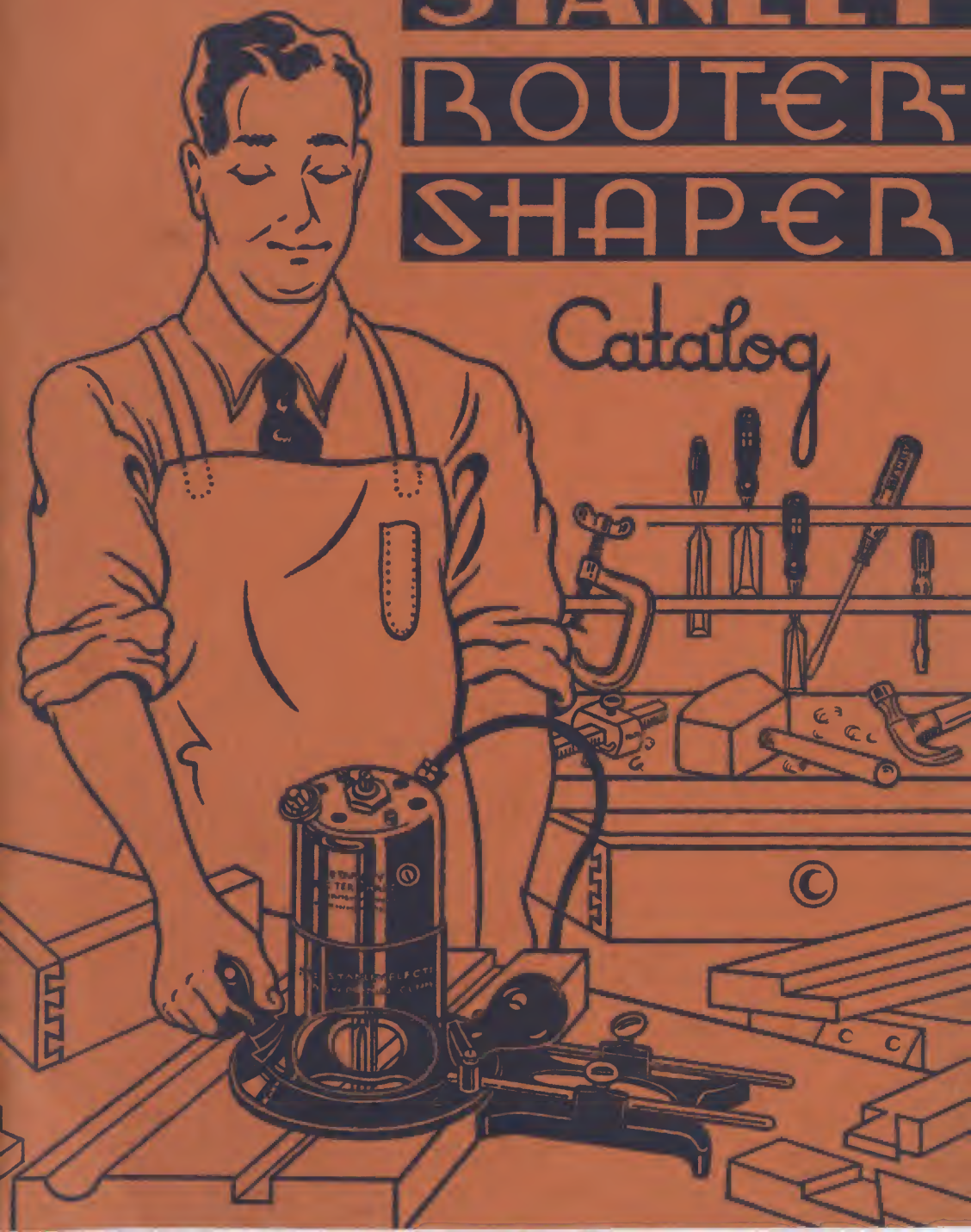


# STANLEY ROUTER- SHAPER

## Catalog





*The First*

# **ELECTRIC ROUTER and SHAPER**

for

## **THE HOME WORKSHOP**

*Catalog*  *No. 61*

*Copyright, October, 1935*

By THE STANLEY ELECTRIC TOOL DIVISION

**THE STANLEY ELECTRIC TOOL DIVISION  
THE STANLEY WORKS  
NEW BRITAIN, CONN.**

Printed in U. S. A.



# Preface

F

OR eighty years STANLEY has taken pride in furnishing skilled workmen with hand tools designed and built to satisfy.

STANLEY now makes available to the amateur woodworker self-contained, direct-driven electric routers and shapers. With this equipment, a man in his home shop, in attic or cellar, has at his disposal tools of the proper speed (18,000 R.P.M.) to permit his doing work comparable to the professional in finish and workmanship. These tools enable a man to do things he has never been able to do with hand tools and do them quickly and easily.

All parts are made to carefully maintained standards by workmen long accustomed to the precision work which is necessary on such high speed tools. Parts are interchangeable and may be added one at a time with assurance of proper fits.

This is more than a catalog, in that we will attempt to tell you briefly *What* a Router or Shaper is—*Why* they are essential to any wood craftsman—*How* a Router and Shaper will assist you to do professional work in your own workshop.

ALL STANLEY Electric Tools are guaranteed to be mechanically and electrically correct and to develop rated capacity in continuous use without overheating.

THE STANLEY ELECTRIC TOOL DIVISION  
THE STANLEY WORKS

New Britain

—

Connecticut, U. S. A.

## TABLE OF CONTENTS

Preface.....	3
Table of Contents.....	4
18,000 Revolutions Per Minute.....	5
Introduction to Routing and Shaping.....	6
Stanley Interchangeable Motor Unit.....	7
Hand Router No. 10 .....	8, 9
Typical Operations—Bench Shaper Plate....	9, 10
The Dovetail Fixture No. 60.....	11
Router Stand No. 20 .....	12, 13
Typical Operations.....	14, 15
Mortising—Templet Work.....	14, 15
Router Equipment for a Drill Press.....	16, 17
Bench Shaper Insert Plate.....	18
Typical Operations.....	19
Shaper Stand No. 25.....	20, 21
Combined Unit—Description.....	22, 23
Bits and Cutters.....	24 to 28
How to Sharpen.....	29
No. 14 Drill.....	30
Parts List.....	31
Drill Press Vise.....	31



## 18,000 Revolutions Per Minute!

*That's fast*—but that's the speed you need to make delicate inlay cuts, smoothly shaped edges, accurate dovetail joints and other fine cuts that distinguish beautiful furniture—and *that's the speed* you get in a STANLEY Router-Shaper.

With the direct motor-driven STANLEY Power Unit developing 18,000 R. P. M., a two-flute router bit will shear wood fibres at the rate of 36,000 cuts per minute. Drill presses, which are primarily intended for metal drilling, are sometimes used for wood routing and shaping, but they have a speed of only 4,000 to 5,000 R. P. M. The difference between 18,000 R. P. M. and 5,000 R. P. M. is the difference between smooth, beautifully finished cuts made with ease, and a two-fisted job of producing cuts that require sanding and hand finishing.

Let us use a homely illustration to get across the advantage of high speed: You can't drive a clean hole through a pane of glass with a baseball, but you can shoot a clean edged hole with a bullet. The inertia of the glass is sufficient to hold the pane still during the tiny interval in which the bullet zips through. It is not great enough to keep it still when the ball crashes it.

Similarly: 18,000 *revolutions per minute* fairly shoots knife edges through wood fibres so fast that the inertia of the wood plays an important part in the resulting silky smoothness of the cut.

Words, however, won't convince you the way a demonstration will; go to your home workshop equipment dealer and make routing and shaping cuts with the STANLEY Router-Shaper. Prove to your own satisfaction the superiority of a *high speed*, 18,000 R. P. M. STANLEY Router-Shaper.

## Routing and Shaping

The Router (pronounced rOUTer) and Shaper are two machines commonly used in woodworking shops for building, shaping and placing decorative effects and finishing touches on furniture and other projects made of wood.

Routing, routing out or shaping is the removing of material with a high speed revolving cutting tool of such shape as the nature of the operation requires. Routers are usually used for surface cuts with bits, while Shapers are usually used for edge cuts with cutters.

The finishing of almost any woodworking project involves the rounding of edges, beading, veining, molding or in general decorative cutting of the wood. Some of these operations are possible with hand tools but generally require special tools, great care and the expenditure of considerable time. Many of the desirable cuts, as drop-leaf table cut, are practically impossible with hand tools.

The STANLEY Router and Shaper is the first equipment designed and offered to the Home Workshop that makes these *decorative* cuts in wood quickly, easily and with such finish that sanding is seldom necessary.

This catalog illustrates and describes the following equipment for corner beading, dovetailing, inlaying, making dados, rabbeting, molding, veining, mortising, etc.

**Router Overarm No. 15 for Drill Press**

**Hand Router No. 10**

**Router Stand No. 20**

**Bench Shaper Plate No. 40**

**Shaper Stand No. 25**

**Combination Router and Shaper Stand No. 30**

**Dovetail Fixture No. 60**

**Straight and Circular Gauges, Circular Guides**

**Bits, Cutters, Chucks and Other Accessories**

**YOU WILL NEED** only one power unit for Routing, Shaping, etc., with these STANLEY Tools, as the motor unit can be used in any of the machines.

. . . . . You will never



# High Speed Motor Unit

## INSURES FINISHED CUTS

STANLEY equipment is so designed that one power unit is used for either routing or shaping. This power unit is a specially designed  $\frac{3}{8}$  H. P. Universal Motor with the proper speed for woodworking (18,000 R.P.M.) which insures a fine finish without sanding. Can be used on either A. C. or D. C. current. Either the router chuck or shaper spindle can be mounted directly on the armature shaft eliminating gears, belts and pulleys. Motor is mounted on heavy duty ball bearings in a special drawn steel housing.

The speed of the bit or cutters in routing or shaping determines the finish of the cut. Woodworking factories demand motors capable of developing high speed in order to obtain fine finished cuts. The speed of this power unit is the same high speed which is furnished to large wood-

working plants throughout the country and the fine finish on cuts will be surprising to anyone who has attempted to work on wood with drill press speeds.

Engineering development, skill and genius have made the equipment possible. With these tools you do not need to be a professional to turn out beautiful woodwork with a fine finish.

See this equipment at your dealers.

You cannot appreciate the quality of the STANLEY Router Shaper line until you have seen it in operation.



Motor Unit with  
Router Chuck



Motor Unit with  
Shaper Spindle

Motor Unit No. 11	\$26.50
Router Chuck No. 12	1.25
Shaper Spindle No. 45	2.25

know how easy . . . . .

**STANLEY**

## Hand Router No. 10

You have always wanted to decorate furniture with delicate inlays, beading, rabbet and carving cuts. . . You can now do this work easily and quickly.



**\$32.55**

110 Volt

*Shipping Weight, 8½ lbs.*

No. 42 Straight and Circular  
Gauge \$1.65 Extra

**Complete \$34.20**

Hand Router No. 10 is furnished with interchangeable electric power unit, router base, chuck, wrenches, a No. 208 ¼-inch high speed bit, and Stanley Router Shaper Instruction Book.

With this machine you can make beading, fluting, and veining cuts, mortise, do carving and hundreds of other operations. Also used with dovetail fixture to make dovetail joints. (See page 11.)

Depth of cut is easily regulated by raising or lowering the power unit in the Hand Router Base. Simple screw clamp locks power unit in place.

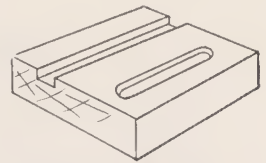
. . . . . it is to

It is as simple to operate a Hand Router as it is to take a morning shave.

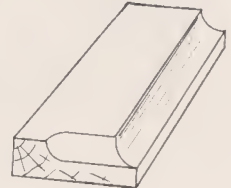
To make any of the cuts illustrated on this page, place the proper bit in the chuck and tighten firmly. Then adjust power unit in Router Base for depth of cut desired. Simply hold unit steady against the guide surfaces. No effort is required to use this Hand Router.

With the Hand Router Unit the number of different operations that can be performed is only limited by the imagination of the user. The effects that can be produced are practically limitless.

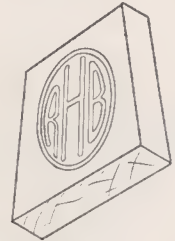
Illustration on opposite page shows unit set up to make a groove cut. Note: Bead cut on corner.



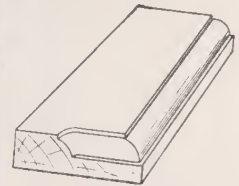
Groove or Dado



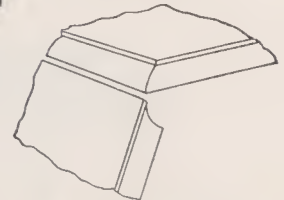
Cove



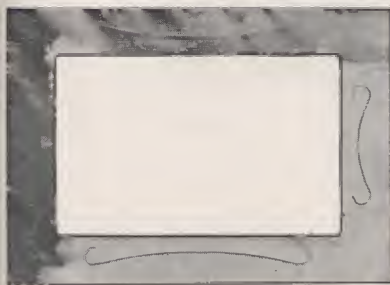
Veining



Corner Bead



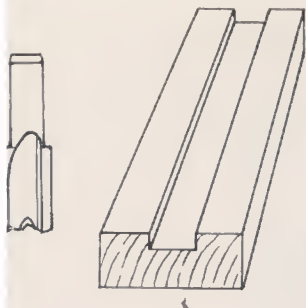
Drop-leaf Table Joint



A picture frame in which copper is used as an inlay. First a veining cut was made, the wire inserted and glued, then filed off even with the surface and the frame finished.



Drop-leaf table cuts, ordinarily most difficult for the home craftsman, are easy to make with the STANLEY Router. Molding cuts as on edge of table are also easily made.



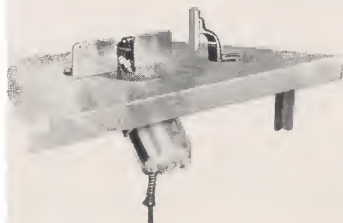
Dado, rabbet and carving cuts are all made with the No. 10 unit in exactly the same way that they are done in the furniture factory. This illustration shows type of bit used for dado, rabbet, mortise or inlay cuts. Full width of cutter is cleaned out in one pass of tool; wider cuts are made by resetting the straight and circular gauge to take additional cuts. Depth of cut is easily regulated by raising or lowering the power unit in the Hand Router Base.

## Inlaying

One of the most effective ways to decorate a wooden project is by inlaying, which is accomplished by inserting different designs. There are available border inlays and medallions made of many different colored woods, which may be purchased ready for inlay for a small amount. These inlays are thin and only require a shallow routing cut to permit proper matching of outlines.



Templet guides Nos. 48-49 are used for inlaying work and for templet work with the Hand Router.



## Turn Your Hand Router into a Bench Shaper

Having the Hand Router, purchase shaper insert plate No. 40, then, using motor unit from hand router in shaper plate, you have a first-class bench shaper.

*See full story on page 18*

*to any professional*



## Dovetail Fixture No. 60

With the Dovetail Fixture No. 60 and Hand Router No. 10 you can make perfect dovetail joints. This type of joint is the mark of a skilled workman.

**\$20.65**

*Shipping Weight, 16 lbs.*

Add for Dovetail Bit No. 1012	\$2.00
Add for Templet Tip No. 49	.25
Add for Hand Router No. 10	32.55
<i>Complete as illustrated</i>	<b>\$55.45</b>



Illustration shows Hand Router making a joint with dovetail fixture

In cutting an open dovetail as illustrated (commonly used in drawer construction) both pieces are cut at the same time, assuring accuracy. A dovetail piece six inches wide can be cut in thirty seconds.

Either blind or open dovetails can be made in any wood from  $\frac{3}{8}$ " to  $\frac{7}{8}$ " in thickness.

Templet Guide No. 49 and Dovetail Bit No. 1012 are needed in addition to this fixture to adapt Hand Router to cutting dovetails. The fixture is made of electroplated cold rolled steel and comes completely assembled ready to attach to your workbench by the use of two wood screws.



**STANLEY**

# Router Stand No. 20

Includes Base and Column No. 21 and Router  
Swivelarm No. 22 . . . . .

**\$22.85**

*Shipping Weight, 43 lbs.*

for Power Unit No. 11 . . . . . \$26.50

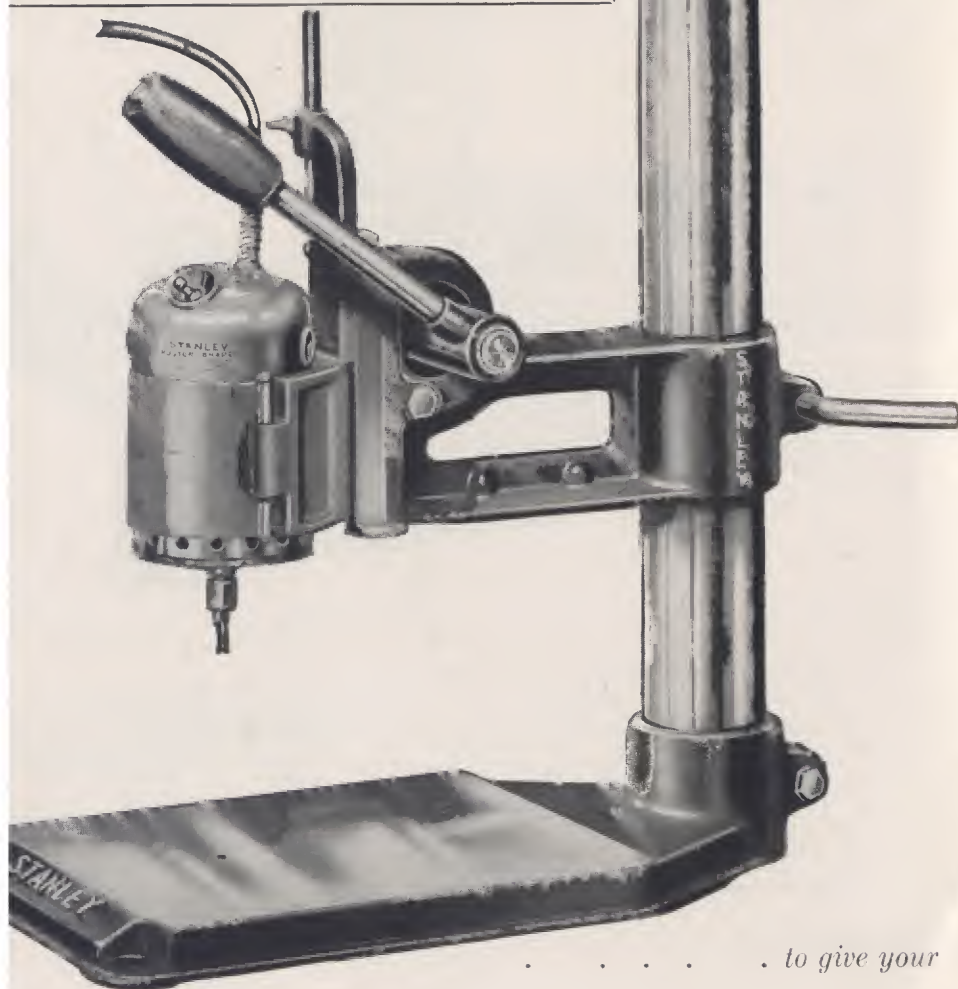
for Router Chuck No. 12 . . . . . 1.25

**\$27.75**

Prices of Separate  
Parts, see page 31

*Complete as illustrated  
with the exception of the Bit*

**\$50.60**



. . . . . to give your

## Router Stand No. 20

Stand No. 20 plus the Hand Router Power Unit makes an extremely useful Bench Router.

With this equipment, cutting mortises or tenons is fast, easy work as is flat turning, templet work and finishing pieces of rough stock to dimensions.

The Bench Router has many advantages over the Hand Router; *First*, all cutting is in full view of the operator at all times; *second*, it is often easier to move the work than the cutting tool; *third*, the motor unit is solidly held in the Router Stand, giving a welcome sense of rigidity; *fourth*, the Router Stand has built into it an easily controlled vertical movement, operated through the lever by the right hand and locked in position or released by a twist of the wrist.

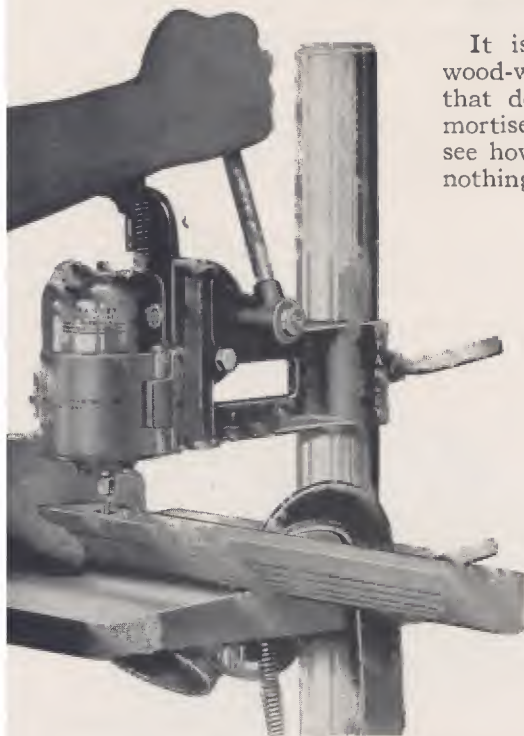
### Description of Router Stand

**BASE:** A sturdy  $15\frac{1}{2}'' \times 8\frac{1}{2}''$  base made of superior cast-iron. Base is drilled and reamed for a templet pin—extremely useful in duplicating designs or in templet work. Machined working surface,  $9\frac{1}{2}'' \times 7\frac{5}{8}''$ .

**COLUMN:** Extra heavy steel tubing ( $2\frac{1}{4}'' \times 24''$ ) accurately ground and nickerled.

**OVERARM:** An accurately machined gray iron casting, power unit securely clamped by quick-acting swing clamp. Conveniently located lever arm for raising, lowering or locking power unit in position. Built-in depth gauge. Large diameter clamp locks over arm to column—easily tightened or loosened.

## Mortising



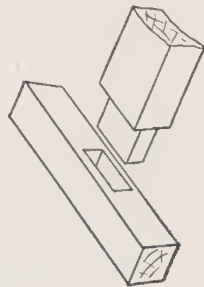
Router Overarm No. 22 \$13.50

It is difficult to imagine any wood-working project of any size that does not have one or more mortised joints. If you want to see how quickly and easily, to say nothing of how accurately, it is possible to cut a mortise and a tenon—go to your dealer and ask him to demonstrate the **STANLEY Bench Router**. No special attachments are necessary. A  $\frac{1}{4}$ " router bit will make a mortise from  $\frac{1}{4}$ " in width up to any width desired; will make it quickly and cleanly.

To cut a mortise: use straight edge or straight fence on Router Table to guide work parallel to cut. Set stop gauge for proper depth, then bring the cutter into the work to depth, and guide the work along straight

edge until length of mortise is cut. If a mortise wider than bit being used is desired, reset straight edge or fence and take additional cuts. To cut tenon, lay try square against straight edge or fence and guide bit for first cut at butt of mortise. Rest of wood can be cleaned out free-hand.

No. 20 Unit makes a fine Drill Stand when used with No. 14 STANLEY Electric Drill.



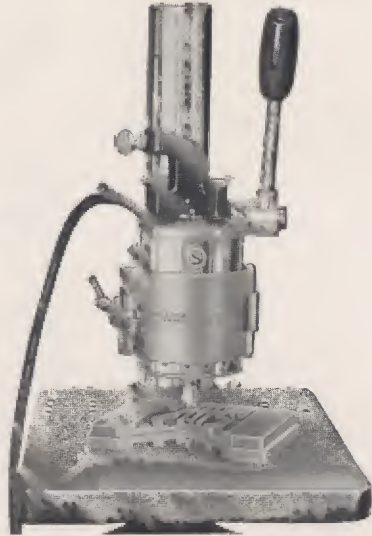
. . . . . those finishing touches

## Templet Work with a Bench Router

One of the most interesting operations in industrial wood-working is the accurate duplication of intricate cuts in wood. The **STANLEY** Bench Router has been designed so that you may use the same method for your own work.

These cuts are duplicated through the use of templets to guide the cuts. In the base of the Router Stand is a drilled and reamed hole to take a templet pin for this work.

The construction of templets is easy. In one form of templet the design to be duplicated is first drawn or traced on a board and then routed out with the **Hand Router** to a depth of  $\frac{1}{4}$ ". To use the templet, fasten it to the bottom of piece to be cut with routed design on the outside.



This design is then placed over templet pin and router bit brought to depth desired. It is apparent that inasmuch as movement of piece to be routed is limited by templet pin—the router bit must reproduce the identical design. Illustration shows a cut-

away view of templet and finished cut, also relative positions of templet pin and router bit.

*that distinguish* . . . . .



# outer Overarm No. 15

## \$16.35

*Shipping Weight, 12 lbs.*

Power Unit No. 11      \$26.50

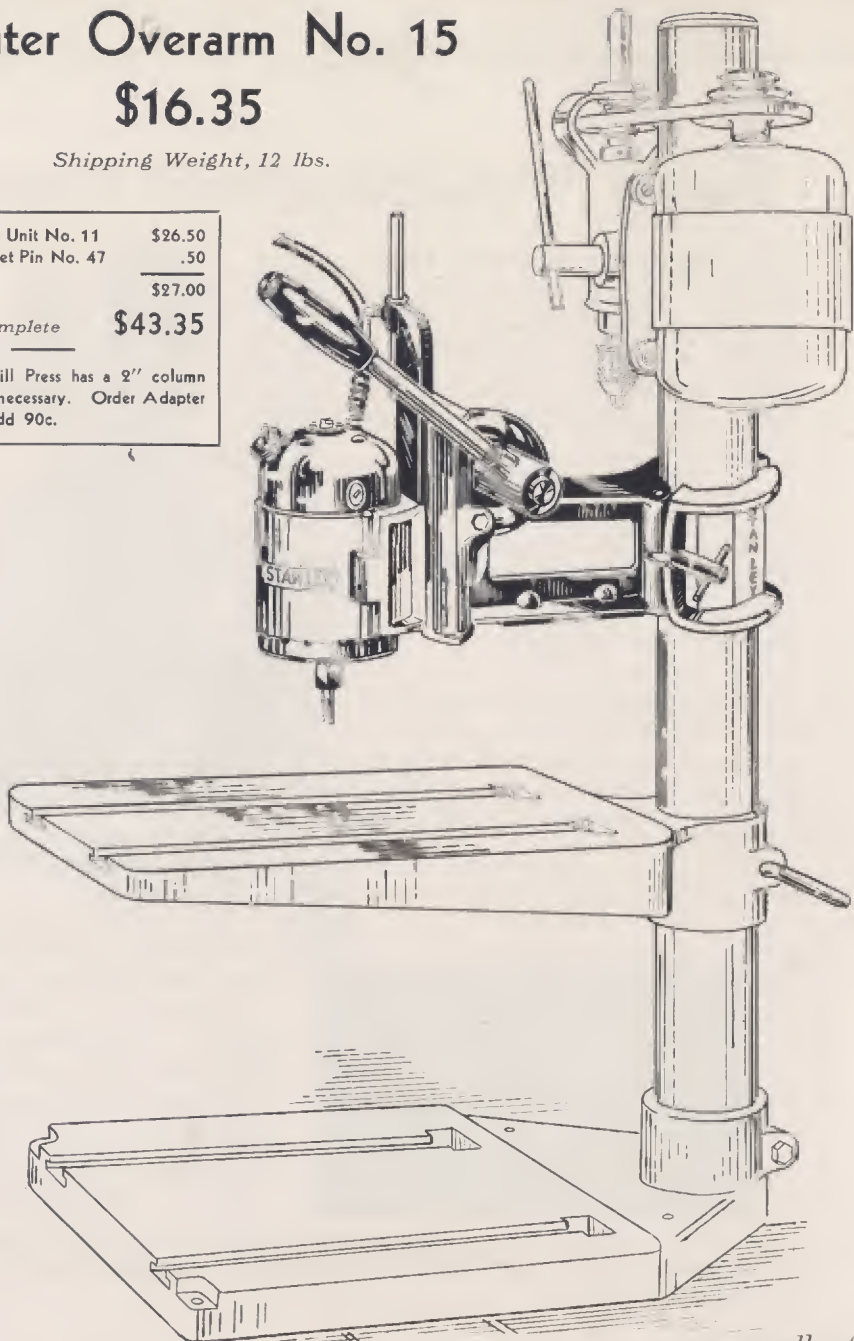
Templet Pin No. 47      .50

\$27.00

*Complete*

## \$43.35

our Drill Press has a 2" column  
ter is necessary. Order Adapter  
and add 90c.



*really fine*



## Router Overarm No. 15

### Router Power Unit (18,000 R.P.M.) No. 11

#### High Speed Router Equipment for Your Drill Press

Beauty in woodwork results from the attractiveness and precision of shaped edges, delicate inlays, carving and similar cuts. Drill press owners, who envy STANLEY Router-Shaper owners the ease with which they make fine finishing cuts, can now turn out the same fine work. All you need is the STANLEY 18,000 R. P. M. Power Unit and Router Overarm No. 15.

The Router Overarm is similar to the one described on the previous pages except that it fits a  $2\frac{1}{2}$ " and  $2\frac{3}{4}$ " drill press column and with an adapter fits a 2" column. To attach it to a drill press is but a few minutes' work: Simply swing the drill press head to the side (you don't have to take it off), and clamp the Overarm and Power Unit in place.

Your first routing cuts with this new equipment will surprise you. Its simplicity in use, the absence of vibration, and the clean, smooth cuts will be a revelation, if you have never used a high speed Router.

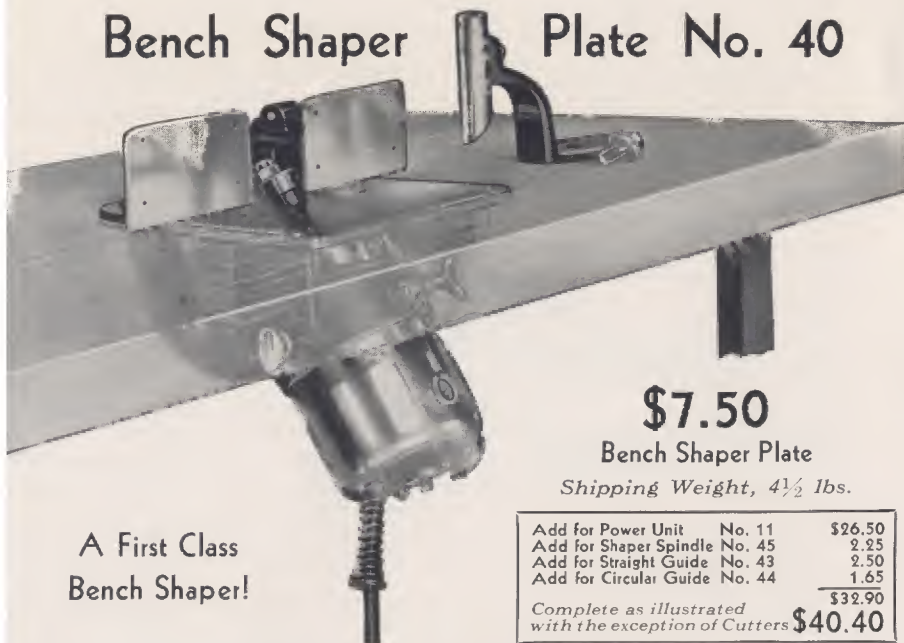
You will enthuse over the simple *One Hand Control* when doing flat carving or routing. With it you can lower to depth with one hand, hold the work with the other, lock the unit at depth *with the same hand on the same handle by simply turning it*. If twenty separate cuts are to be made you save starting and stopping the spindle twenty times!

To do flat carving (routing) with templets (see page 15) you will need Templet Pin No. 47 which should fit in a hole easily drilled in the drill press table or auxiliary wood table. Complete directions for drilling the hole are packed with the templet pin. Price, 50 cents.

Space does not permit listing all of the features of this equipment, but simplicity and accuracy are the keynotes. The precision-built, ball-bearing, 18,000 R. P. M. Power Unit has no gears, belts or pulleys to slip or consume power. The router stand has one moving part, and a positive one-hand depth adjustment. The ways for the vertical adjustment are machined to very close limits and provision is made to compensate for the slightest amount of wear, eliminating any possibility of vibration. The motor holder and lock are simple, positive, and incredibly firm.

You can add to STANLEY Router Equipment as your needs and means increase. Thus: you have the STANLEY Router Equipment for a Drill Press; add the Hand Router Base next; then the Bench Shaper Plate and Spindle; finally the Dovetail Attachment, and you have the finest home workshop equipment available for routing and shaping.

# Bench Shaper Plate No. 40



**A First Class  
Bench Shaper!**

**\$7.50**

**Bench Shaper Plate**

*Shipping Weight, 4½ lbs.*

Add for Power Unit	No. 11	\$26.50
Add for Shaper Spindle	No. 45	2.25
Add for Straight Guide	No. 43	2.50
Add for Circular Guide	No. 44	1.65

*Complete as illustrated  
with the exception of Cutters* **\$32.90**  
**\$40.40**

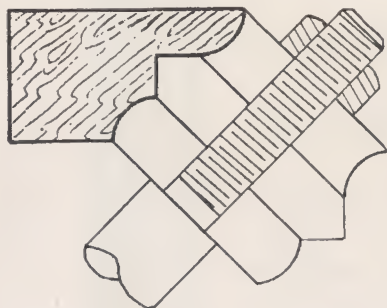
The Bench Shaper Plate No. 40 has been designed for the man who has Hand Router No. 10 and wants to make molding or other shaper cuts. With this Shaper Plate mounted in the workbench the motor unit from the Hand Router can be utilized to make an efficient Bench Shaper at very little expense.

With the Shaper you can turn out beautiful finished moldings, tongue, groove and joint edges rapidly and easily.

This STANLEY Shaper is the result of many years of industrial development.

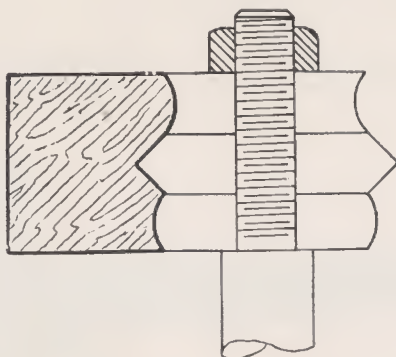
STANLEY has built a high speed shaper (18,000 R.P.M.) insuring smooth cuts that eliminate sanding. A patented tilting feature plus its high speed makes it possible to use small cutters and produce with them cuts that could not be produced otherwise with cutters of twice the diameter. The tilting feature also eliminates the necessity of purchasing new cutters for each type of molding to be made. It has been estimated that four different shapes of STANLEY cutters can produce over six hundred different moldings, due to the tilting feature and interchangeability of the different cutters.

. . . . . the products of



The patented tilting feature of the **STANLEY** Shaper allows the use of these small diameter cutters for all big cuts. Small diameter cutters mean more power at the cutting edge. Cutters may be used singly or in groups. In first illustration three cutters are shown on shaper spindle

grouped to make one complete cut. The second illustration shows the same cutters with shaper spindle in a vertical position giving a different molding cut. By rearranging the cutters and changing the angle of the shaper spindle a few cutters will give any contour imaginable in a shaper cut.



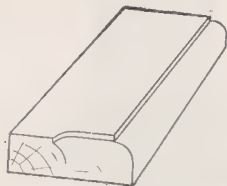
## Straight Guide No. 43



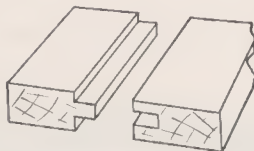
**Straight Guide No. 43 \$2.50**

For practically all shaper operations Straight Guide No. 43 is necessary. Provision has been made for locating this guide in various positions on the shaper plate.

For guiding shaper cuts on irregular pieces Circular Guide No. 44 (illustrated on opposite page on surface of Bench Shaper) should be used.

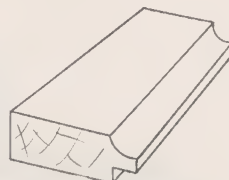


Beading



Tongue

Groove



Cove and Rabbet

**STANLEY**

# Shaper Stand No. 25

Consists of Base and Column No. 21 and Shaper  
Table No. 26 . . . . .

**\$25.20**

*Shipping Weight, 43 lbs.*

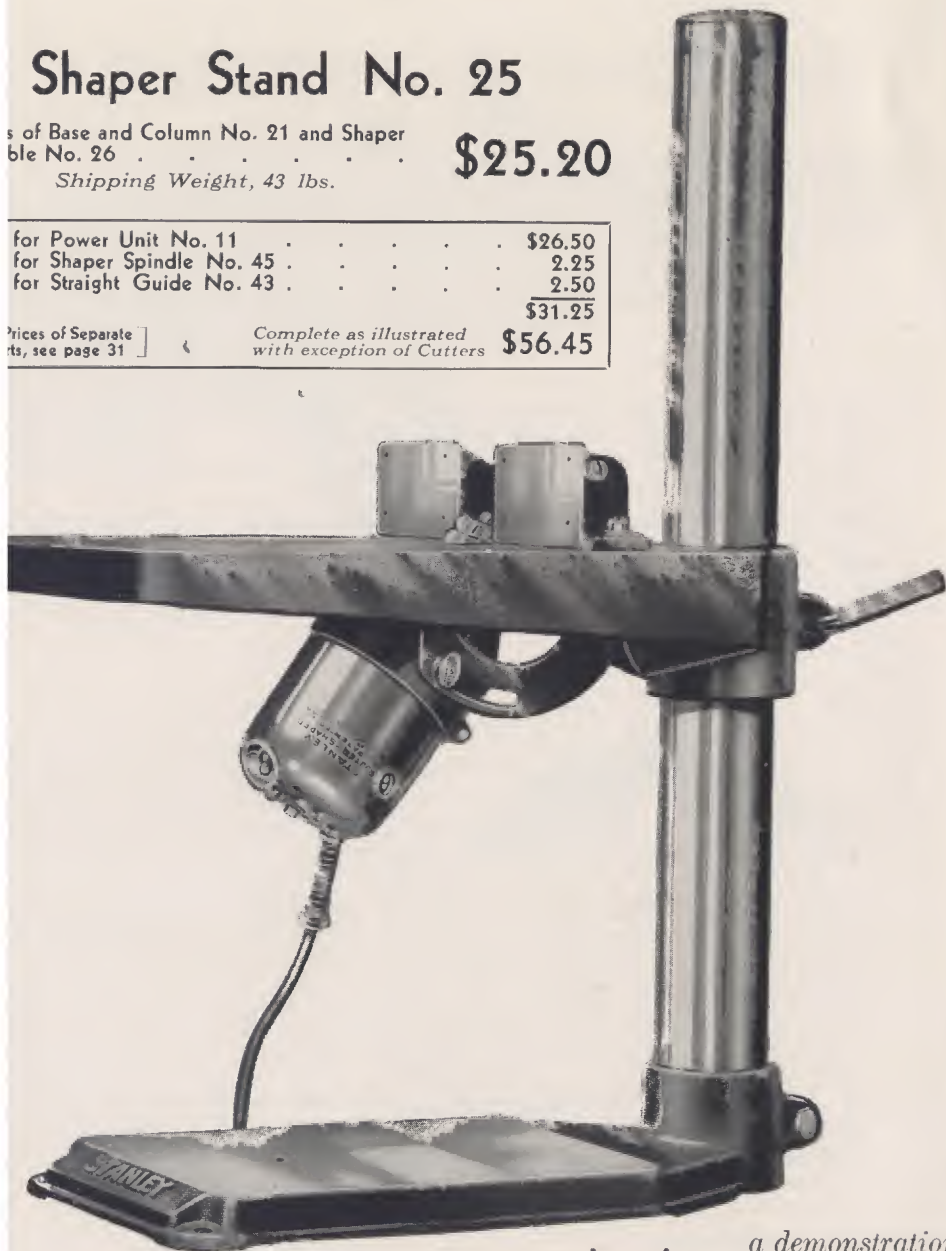
for Power Unit No. 11 . . . . .	\$26.50
for Shaper Spindle No. 45 . . . . .	2.25
for Straight Guide No. 43 . . . . .	2.50

**\$31.25**

Prices of Separate  
Parts, see page 31 ]

Complete as illustrated  
with exception of Cutters

**\$56.45**



*a demonstration*



## Shaper Stand No. 25

The STANLEY Shaper Stand No. 25 plus the power unit is the finest equipment made for making molding and shaping cuts in the home workshop. With this machine, which is equipped with a patented tilting holder for the power unit, it is possible to produce an infinite variety of different cuts without purchasing a special cutter for each type of cut to be made. It is estimated that with only four cutters at least 600 different cuts can be made by changing the grouping of the cutters and the tilting of the power unit.

This Shaper Stand takes the same power unit used in the Hand or Bench Router. In doing shaper work you simply substitute the shaper spindle for the router chuck.

The Shaper Table is manufactured with extreme accuracy to enable you to do work equal to the professional. It is made to accommodate the straight guide No. 43. It is also drilled and reamed to take the templet pin so that any time you wish to convert this unit into a Bench Router all that is necessary is to add the Bench Router Overarm No. 22. (See page 12.)

### Description of Shaper Stand

**SHAPER TABLE:** Finest gray iron casting accurately machined (14" x 10").

**BASE:** A sturdy 15½" x 8½" base made of superior cast-iron. Machined working surface, 9½" x 7⅝".

**COLUMN:** Extra heavy nicked steel tubing (2¼" x 24") accurately ground.

*is better*

. . . . .



## Combination Router—Shaper Stand

With this combination unit you can do all of the operations described up to this point except dovetailing. It is the de luxe machine, and is the result of a great deal of study to provide a machine for the home craftsman that takes care of the majority of the different wood-working operations.

It takes little space, requires no pulleys, belts or countershafts, and makes possible operations that have not been within the range of the amateur wood-worker.

This tool is honestly made of the very best materials, by skilled mechanics long accustomed to precision work.

These units come to you ready for instant operation—simply fasten to your bench.

- No. 11 Interchangeable electric power unit can be used in Hand Router or in Router Stand or Shapers.  
Seamless Drawn Steel Housing. Heavy duty ball bearings. 18,000 R.P.M. (revolutions per minute).  $\frac{3}{8}$  H.P. specially designed Universal Motor A.C. or D.C. 110-volt.
- No. 12 True running Router Chuck.
- No. 21 Base made of superior gray cast-iron—surface machined—drilled and reamed for tapered templet pin. Provision for bolting to bench. Column—( $2\frac{1}{4}'' \times 24''$ )—made of extra heavy steel tubing accurately ground and nickeled.
- No. 22 Overhead router arm—made of superior grade of gray cast-iron accurately machined.
  - a Power unit securely clamped in overhead router arm by swing clamp fastened by clamp screw.
  - b Router unit and bit is quickly and easily raised, lowered or locked in any position by conveniently located lever handle.
  - c Rack and pinion gear, of steel, cut teeth.
  - d Take-up for power unit slide which insures smooth, trouble-free operation for the life of the machine.
  - e Depth gauge may be adjusted to accurately give any predetermined depth of cut.
  - f Large diameter lugs lock table and router arm to column. Easily tightened or loosened.
- No. 26 Heavily ribbed Shaper Table—( $14'' \times 10''$ )—made of superior gray cast-iron—machined and drilled to accommodate straight guide, circular guide and templet pin.
  - g Heavy segment on Shaper Table allows power unit to be locked at any angle up to  $45^\circ$ . Tilting feature patented. Illustration shows motor unit tilted at  $45^\circ$ .
- No. 43 Fully adjustable straight guide used when doing jointing work and making straight molding cuts.
- No. 44 Circular guide can be mounted as shown or reversed and mounted on Shaper table in place of straight guide for making molding cuts on irregular curved surfaces.

*than one thousand words*

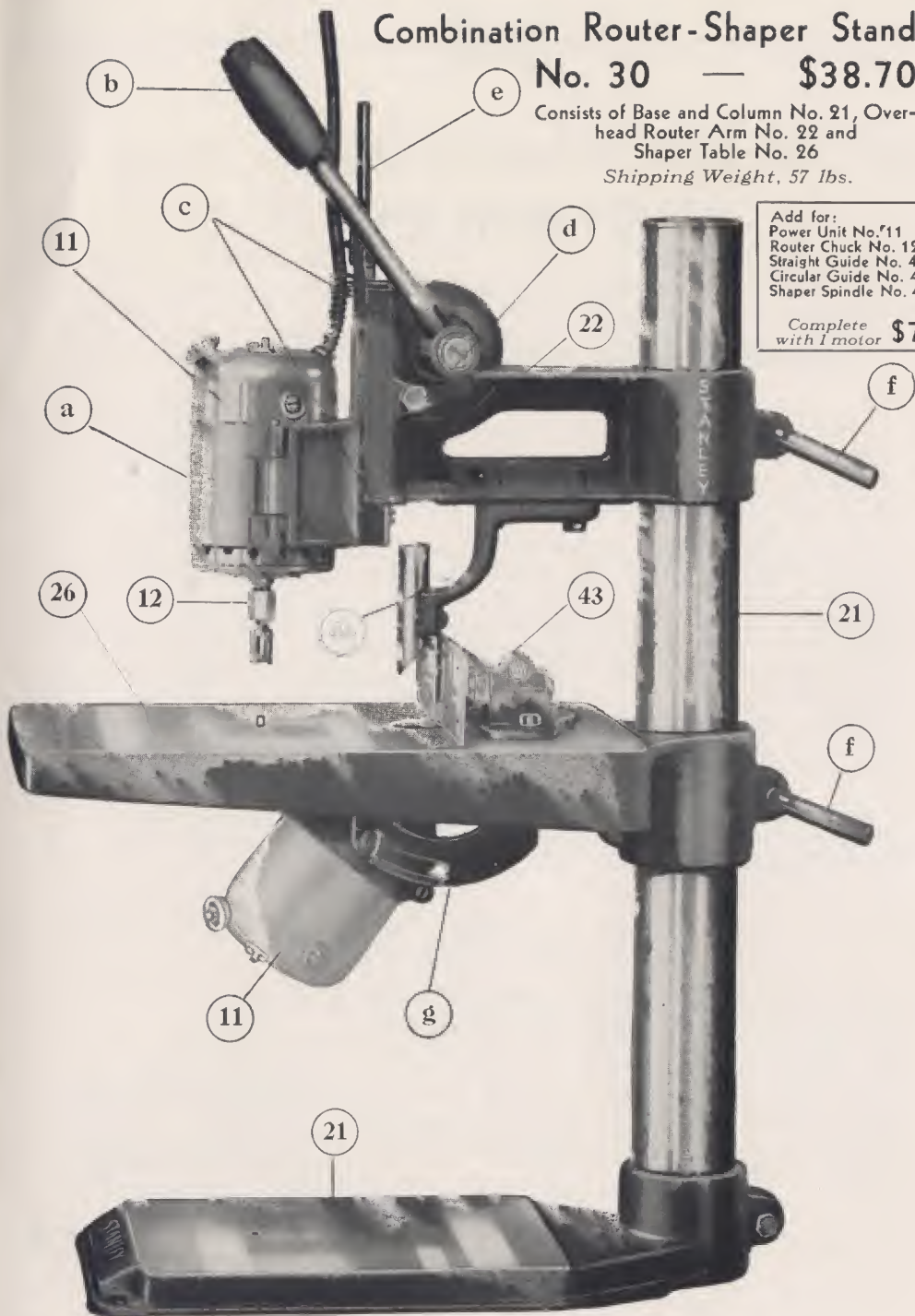
# Combination Router-Shaper Stand

No. 30 — \$38.70

Consists of Base and Column No. 21, Over-  
head Router Arm No. 22 and  
Shaper Table No. 26

Shipping Weight, 57 lbs.

Add for:	
Power Unit No. 11	\$26.50
Router Chuck No. 12	1.25
Straight Guide No. 43	2.50
Circular Guide No. 44	1.65
Shaper Spindle No. 45	2.25
	\$34.15
Complete with 1 motor	<b>\$72.85</b>









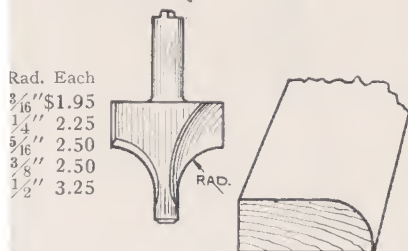
# STANLEY

## High Speed Steel Router Bits

### Rounding Over Bits

#### High Speed Steel

Used to round the edges of moldings and of tables. *The pilot (tip) acts as a guide along the edge of the work.* Two  $\frac{1}{4}$ " shanks.



### Core Box Bits

#### High Speed Steel

For light core box work and surface fluting. Two flutes.  $\frac{1}{4}$ " shanks.

No.	A	Each
408	$\frac{1}{4}$ "	\$1.25
410	$\frac{5}{16}$ "	1.35
412	$\frac{3}{8}$ "	1.75
414	$\frac{7}{16}$ "	2.00
416	$\frac{1}{2}$ "	2.00

### Metal Cutting Bits

#### High Speed Steel

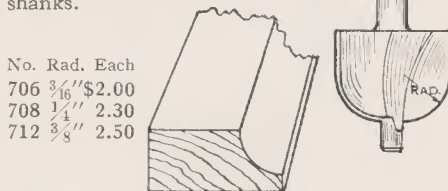
Especially made for routing type metal, lead, brass, aluminum and similar non-ferrous metals. All have  $\frac{1}{4}$ " shanks.

Diam.	Each
$\frac{1}{8}$ "	\$ .75
$\frac{3}{16}$ "	.95
$\frac{1}{4}$ "	1.10
$\frac{5}{16}$ "	1.20
$\frac{3}{8}$ "	1.40

### Cove Bits

#### High Speed Steel

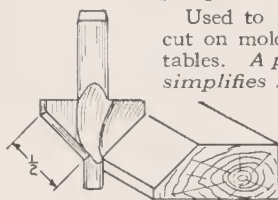
Used to make cove cuts on table tops, panel rails, and the table-leaf cut on a drop-leaf table. *The pilot at the end bears against the work and regulates depth of cut.* Two flutes.  $\frac{1}{4}$ " shanks.



### Chamfer Bit

#### High Speed Steel

Used to make a chamfer cut on moldings and tops of tables. *A pilot at the end simplifies following irregular shaped work.* 2 flutes.  $\frac{1}{4}$ " shank.



### Taper Bits

#### High Speed Steel

Used extensively in pattern making and other work where a taper-sided cut is desired.  $\frac{1}{4}$ " shanks.

No.	A	Length of Flute	Each
1202	$\frac{1}{16}$ "	$\frac{9}{16}$ "	\$ .60
1208	$\frac{1}{4}$ "	$\frac{15}{16}$ "	.95

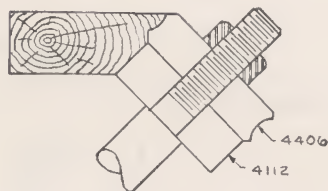


of the dealer

# STANLEY

## High Speed Steel Shaper Cutters

The new STANLEY Shapers have a patented tilting spindle which eliminates the necessity of purchasing new cutters for each type of molding to be made. Using one, two or three cutters in combination and tilting the spindle to various degrees from 45° to vertical, four different shapes of STANLEY Cutters will produce over six hundred different moldings.



### Straight Face Cutters

All have  $\frac{5}{16}$ " arbor holes and are  $1\frac{1}{8}$ " in diameter.



No.	Width	Each
4104	$\frac{1}{8}$ "	\$1.50
4106	$\frac{3}{16}$ "	1.50
4108	$\frac{1}{4}$ "	1.75
4112	$\frac{3}{8}$ "	1.50
4116	$\frac{1}{2}$ "	2.00
4120	$\frac{5}{8}$ "	2.50
4124	$\frac{3}{4}$ "	2.95

### Chamfer Cutters

Made in right and left. Both have  $\frac{5}{16}$ " arbor holes, are  $1\frac{1}{8}$ " in diameter and  $\frac{3}{16}$ " wide. Illustration shows Left Hand (No. 4800L).



No.	A.	Each
4800L	$\frac{9}{32}$ "	\$2.50
4800R	$\frac{9}{32}$ "	2.50

### Concave Cutters

All have  $\frac{5}{16}$ " arbor holes and are  $1\frac{1}{8}$ " in diameter.



No.	Width	Rad.	Each
4204	$\frac{3}{16}$ "	$\frac{1}{8}$ "	\$1.60
4206	$\frac{1}{4}$ "	$\frac{3}{16}$ "	1.65
4208	$\frac{23}{64}$ "	$\frac{1}{4}$ "	1.80
4210	$\frac{7}{16}$ "	$\frac{5}{16}$ "	1.50
4212	$\frac{17}{32}$ "	$\frac{3}{8}$ "	1.90
4214	$\frac{5}{8}$ "	$\frac{1}{2}$ "	2.00
4216	$\frac{23}{32}$ "	$\frac{1}{2}$ "	2.30
4218	$\frac{13}{16}$ "	$\frac{5}{8}$ "	2.60
4220	$\frac{7}{8}$ "	$\frac{5}{8}$ "	2.95
4222	1"	$\frac{11}{16}$ "	2.95
4224	$1\frac{1}{16}$ "	$\frac{3}{4}$ "	3.00

### Convex Cutters

All have  $\frac{5}{16}$ " arbor holes.



No.	Width	Rad.	Diam.	Each
4304	$\frac{3}{16}$ "	$\frac{1}{8}$ "	$1\frac{3}{16}$ "	\$1.70
4306	$\frac{1}{4}$ "	$\frac{3}{16}$ "	$1\frac{1}{4}$ "	1.75
4308	$\frac{11}{32}$ "	$\frac{1}{4}$ "	$1\frac{9}{32}$ "	1.75
4310	$\frac{7}{16}$ "	$\frac{5}{16}$ "	$1\frac{5}{16}$ "	1.50
4312	$\frac{17}{32}$ "	$\frac{3}{8}$ "	$1\frac{11}{32}$ "	2.00
4314	$\frac{45}{64}$ "	$\frac{1}{2}$ "	$1\frac{7}{16}$ "	3.25
4316	$\frac{51}{64}$ "	$\frac{1}{2}$ "	$1\frac{7}{16}$ "	3.35
4318	$\frac{7}{8}$ "	$\frac{9}{16}$ "	$1\frac{15}{32}$ "	5.25

in your vicinity

# STANLEY

## High Speed Steel Shaper Cutters

### Corner Bead Cutters

All have  $\frac{5}{16}$ " arbor holes and are  $1\frac{3}{16}$ " in diameter.



Width	Rad.	Each
$\frac{1}{4}$ "	$\frac{1}{8}$ "	\$2.00
$1\frac{11}{32}$ "	$\frac{3}{16}$ "	2.30
$\frac{7}{16}$ "	$\frac{1}{4}$ "	2.60

### Surface Bead Cutters

All have  $\frac{5}{16}$ " arbor holes and are  $1\frac{1}{8}$ " in diameter.



No.	A	Each
4606	$\frac{3}{16}$ "	\$2.00
4610	$\frac{5}{16}$ "	2.30
4614	$\frac{7}{16}$ "	2.60

### Spindle Bead Cutters

All have  $\frac{5}{16}$ " arbor holes.



Width	Diam.	Each
$\frac{1}{4}$ "	$1\frac{11}{32}$ "	\$1.85
$\frac{3}{8}$ "	$1\frac{11}{32}$ "	2.60
$\frac{7}{16}$ "	$1\frac{3}{8}$ "	2.60

### "V" Rabbeting Cutters

Both have  $\frac{5}{16}$ " arbor holes.



No.	A	Diam.	Each
4708	$\frac{1}{4}$ "	$1\frac{1}{2}$ "	\$2.40
4712	$\frac{3}{8}$ "	$1\frac{5}{8}$ "	4.25

## Grinding Wheels

Used in No. 10 Hand Router to sharpen bits and cutters. All have  $\frac{1}{4}$ " shanks.



No. B1 Pencil \$0.80



No. S Straight \$.70



No. Z Tapered \$.75

# How to Sharpen Bits and Cutters

## Keep Your Bits and Cutters Sharp

STANLEY Bits and Cutters are so designed that using the Power Unit and the proper grinding pencils you can sharpen them without changing their shape.

Sharp bits and cutters mean the difference between fine work and sloppy work. Dull bits and cutters will overload your motor and give poorly finished cuts.

Frequent sharpening of bits and cutters prolongs the life of the cutting tool as so little has to be taken off each time. Dull tools require deep grinding. Keep your cutters sharp.

### Grinding of Bits

Never grind on the outside diameter of your bit. Always sharpen or grind your bit on the underside of the lip as at (A) (Fig. 1).

The hand router is held in your hand, as shown, and the bit in your other hand between the thumb and first and second finger. The bit is then passed over the revolving wheel.

The Z and S Wheels are used for sharpening bits having a flat underlip (Fig. 2).

The B1 Wheel is used for grinding small size bits having a round flute (Fig. 1).

### Grinding of Cutters

All cutters are relieved behind the cutting edge in such a way that grinding on the flat face of the cutter does not change the form.

**DO NOT** grind on the outside of any cutter.

Use Z Wheel mounted in motor unit chuck to grind cutters (Fig. 3).

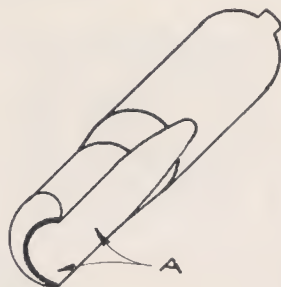


Figure 1

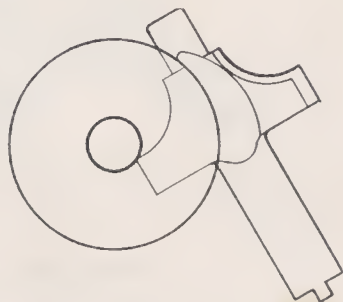


Figure 2

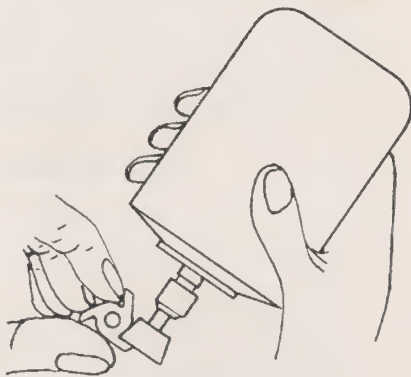


Figure 3

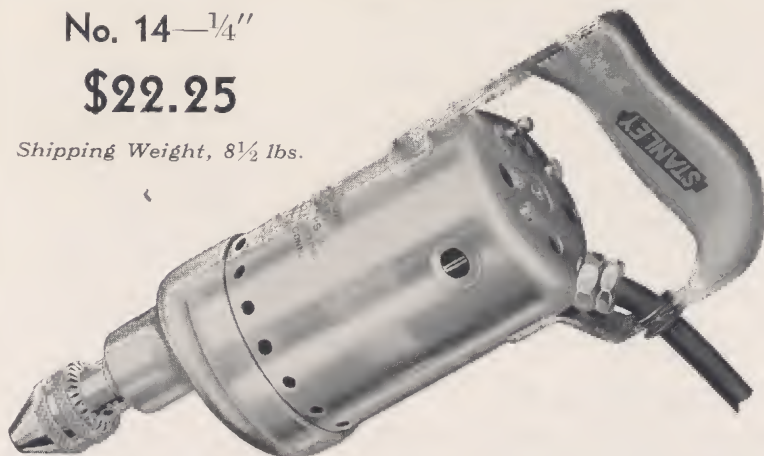


# Stanley $\frac{1}{4}$ " Electric Drill

No. 14— $\frac{1}{4}$ "

**\$22.25**

*Shipping Weight, 8½ lbs.*



There is no tool in the home workshop that is more handy than a properly designed electric drill. Useful for drilling in wood, metal and compositions, it can also be used to run wire wheel brushes and buffing wheels.

## Description of Stanley Electric Drill

Heavy wrought metal, nickel plated motor housing.

Seal type ball-bearing on armature, thrust ball-bearing on spindle.

Specially heat-treated alloy steel gears.

Heavy rubber-covered cable with positive cable clamp on drill that eliminates strain on wire connection.

Three-jaw Jacobs chuck screwed on spindle.

## Specifications

Universal motor operates on either D.C. or A.C., 60 cycles or less.

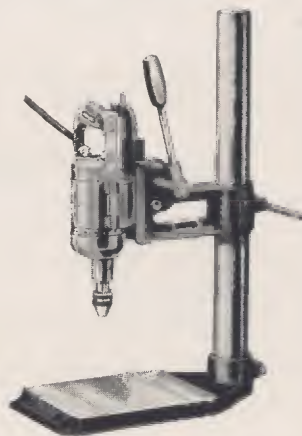
Furnished in 110, 150, 220, 230, 240, or 250 volts as specified.

Capacity in steel,  $\frac{1}{4}$ ".

Full load chuck speed, 1500 R.P.M.

Specify voltage desired.

No. 14 Electric Drill may be mounted in No. 10 or No. 30 stand. (See pages 12 and 23.)



# Stanley Drill Press Vise

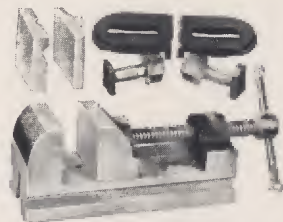
No. 537W — \$3.75

Designed for use on Drill Presses, Milling Machines or for Bench Work. It can be used on its sides as well as on base.

The Jaws are machined parallel to hold work firmly. Machine-cut Steel Screw insures rigidity and easy operation.

Furnished complete with clamps for fastening the vise to drill press base and extra jaws for holding irregular shaped work.

The Jaws are 2½" wide and have a clamping capacity up to 3".



## Price of Parts for Router Shaper

No. 11	High Speed Motor Unit, 110 volt, with Wrenches.....	\$26.50
No. 12	Chuck for Power Unit for ¼" shank (used for Routing).....	1.25
No. 13	Base for Hand Router.....	4.10
No. 15	Router Overarm to fit Drill Press.....	16.35
No. 16	Router Overarm Adapter for 2" column.....	.90
No. 21	Base and Column for No. 20, 25 or 30 Stand.....	9.35
No. 22	Overhead Router Arm.....	13.50
No. 26	Shaper Table.....	15.85
No. 40	Bench Insert Shaper Plate.....	7.50
No. 42	Straight and Circular Gauge for use with Hand Router.....	1.65
No. 43	Straight Guide for use with Shapers.....	2.50
No. 44	Circular Guide for use with Shapers.....	1.65
No. 45	Shaper Spindle for Power Unit, 5/16" diameter.....	2.25
No. 46	Templet Pin for use with No. 20 or No. 30.....	.35
No. 47	Templet Pin for Drill Press Table.....	.50
No. 48	Large Templet Tip for use with Hand Router.....	.50
No. 49	Small Templet Tip for use with Hand Router.....	.25
No. 50	Ring for Small Templet Tip, used with Templet Tip No. 49 for Inlaying.....	.25
No. 60	Dovetail Fixture.....	20.65

All prices in this catalog are F.O.B., New Britain, Conn. Transportation charges to be added. Prices subject to change without notice.

A COMPLETE INSTRUCTION BOOK on the use of Stanley Routers and Shapers is furnished with each No. 10 Router or No. 11 Motor Unit. We will be pleased to send you a copy of this instruction book on receipt of twenty-five cents to cover cost of postage and packing.

# *They're Free!*

## SEND FOR THEM



### **"The Joy of Accomplishment"**

This interesting little booklet relates some of the joys and experiences that come to the woodworking hobbyist. Perhaps of more importance to you, it tells what tools to select for a home workshop. Its list of "Primary Tools" and "Tools To Be Added As Needed" should prove of real value to every home craftsman.

### **Catalog No. 34**

This 200-page book is more than a catalog. It illustrates and describes 1,500 **STANLEY** Hand Tools, but in addition it contains many useful tables on weights and measures and helpful data on lumber. Many home craftsmen keep a copy of this book in their tool cabinet where it is constantly available for reference.



*These Books are Yours For The Asking*

## **STANLEY TOOLS**

New Britain, Conn.





